

Abstract

[0074] A flow testing system and method are provided for facilitating the continuous flow testing of fluid flow systems and components. An exemplary flow testing system and method are suitably configured for direct implementation into the manufacturing processes for fluid flow systems and components or for stand-alone operation, and can facilitate increased flow testing throughput. An exemplary flow testing system comprises a flow amplifier subsystem, a piping subsystem, a venturi subsystem, and an output coupling subsystem. The flow amplifier subsystem is configured for coupling to an ambient air source, while the output coupling subsystem is configured for coupling to a fluid flow component for testing. The flow amplifier subsystem and venturi subsystem are configured to provide a forced air flow to facilitate the determination of whether the fluid component has any blockage or other restriction that can prevent the flow of air, and/or whether the fluid component has any leaks, thus allowing air/fluid to flow from within the fluid component to the ambient environment. In addition, the flow testing system can also be configured with a control system configured to provide control of flow testing system and/or various of the subsystems.